

Application No.: 10/011134

IN THE CLAIMS

Please delete Claims 2 and 11.

Please amend Claims 1, 3 – 10, and 12 – 16 to read as follows:

A1 1. UV illuminating device for crosslinking biocompatible, polymerisable material in order to produce an ophthalmic moulding in a casting mould consisting of two mould halves, comprising at least one UV lamp which is surrounded by a plurality of optical fibres, wherein each optical fibre is linked to one casting mould.

A2 3. UV illuminating device according to claim 1, wherein the UV lamp is a mercury lamp.

4. UV illuminating device according to claim 3, wherein the UV lamp is a doped mercury lamp.

5. UV illuminating device according to Claim 1, wherein the optical fibres are liquid optical fibres.

6. UV illuminating device according to Claim 1, wherein the emission spectrum of the UV lamp has a high UV intensity at 280 - 360 nm.

7. UV illuminating device according to Claim 1, further comprising a sensor, wherein the sensor measures the radiation intensity of the UV lamp and is connected to a regulating unit to regulate the UV radiation.

8. UV illuminating device according to Claim 1, further comprising a measuring unit which measures the emitting UV radiation intensity.

9. UV illuminating device according to one or more of claims 1 to 8, whereby, wherein in order to couple in the UV radiation, a quartz rod is respectively provided between the UV lamp and the light admission area of each of the optical fibres.

10. UV illuminating device according to claim 9, wherein a cut-on filter is provided between the quartz rod and the optical fibre in order to absorb short-waved UV radiation.

A3 12. UV illuminating device according to Claim 1, wherein a diaphragm is provided between the optical fibre and the UV lamp.

13. UV illuminating device according to claim 12, wherein the aperture of the diaphragm is adjusted by means of a stepping motor unit.

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14. UV illumination device according to Claim 1, wherein the aperture of the diaphragm is controlled in accordance with the measurement of UV radiation intensity being emitted.
15. UV illuminating device according to Claim 1, wherein a UV condenser is mounted between the optical fibre and the upper mould half.
16. UV illuminating device according to Claim 1, wherein the optical fibres are arranged radially around the UV lamp in relation to the longitudinal axis of the UV lamp.